

Certificate of Analysis

5092785

Mark Peacock
Duke Energy - Edwardsport IGCC
15424 State Road 358
Edwardsport IN, 47528

Customer ID: DU2303
Report Printed: 10/01/2015 13:08

Project Name: Grey Water Process Control

Workorder: 5092785

Dear Mark Peacock

Enclosed are the analytical results for samples received at one of our laboratories on 09/25/2015 13:50.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

Please visit our websites at www.mccoyslabs.com or www.eclabs.org for a listing of the NELAP accreditations and Scope of Work, as well as, links to other scientific organizations.

This certificate of analysis may not be reproduced without the written consent of McCoy & McCoy



#460210
Madisonville

A handwritten signature in black ink that reads "Syd Tate".

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Syd Tate, Data Reviewer

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5092785-01	Filtered Water/20150924015	Wastewater	09/24/2015 08:05	09/25/2015 13:50	Diana Reedy
5092785-02	Greywater Influent/20150924-017	Wastewater	09/24/2015 08:15	09/25/2015 13:50	Diana Reedy
5092785-03	Greywater In Process/20150924-016	Wastewater	09/24/2015 08:10	09/25/2015 13:50	Diana Reedy

ANALYTICAL RESULTS

Lab Sample ID: **5092785-01**

Description: **Filtered Water 20150924015**

Sample Collection Date Time: 09/24/2015 08:05

Sample Received Date Time: 09/25/2015 13:50

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	322		mg/L	10.0	10.0	2540 C-1997	09/28/2015 13:10	09/29/2015 14:40	dsb

ANALYTICAL RESULTS

Lab Sample ID: **5092785-02**

Description: **Greywater Influent 20150924-017**

Sample Collection Date Time: 09/24/2015 08:15

Sample Received Date Time: 09/25/2015 13:50

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	2140		mg/L	10.0	10.0	2540 C-1997	09/28/2015 13:10	09/29/2015 14:40	dsb

ANALYTICAL RESULTS

Lab Sample ID: **5092785-03**

Description: **Greywater In Process 20150924-016**

Sample Collection Date Time: 09/24/2015 08:10

Sample Received Date Time: 09/25/2015 13:50

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	ND	u	mg/L	10.0	10.0	2540 C-1997	09/28/2015 13:10	09/29/2015 14:40	dsb

Notes for work order 5092785

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

Sample Acceptance Checklist for Work Order 5092785

Shipped By: MMLI

Temperature: 4.00° Celcius

Condition

Custody seals present/intact?	<input type="checkbox"/>
Were any containers received damaged?	<input type="checkbox"/>
COC submitted and complete?	<input checked="" type="checkbox"/>
COC agree with sample labels?	<input checked="" type="checkbox"/>
All containers listed on COC received?	<input checked="" type="checkbox"/>
Were all samples in appropriate containers?	<input checked="" type="checkbox"/>
Did all samples have appropriate volumes?	<input checked="" type="checkbox"/>
Were collection methods recorded on COC?	<input checked="" type="checkbox"/>
Were flow units recorded on COC?	<input type="checkbox"/>
Any headspace issues with volatile samples?	<input type="checkbox"/>
Were all holding times acceptable?	<input checked="" type="checkbox"/>
Were preserved samples within acceptable pH range?	<input type="checkbox"/>
Were preserved samples within acceptable Cl2 range	<input type="checkbox"/>

Chain of Custody

Scheduled for: **09/30/2015**



Client: **Duke Energy - Edwardsport IGCC**

Report To:
Duke Energy - Edwardsport IGCC

Invoice To:
Duke Energy - Edwardsport IGCC

Project: **Grey Water Process Control**

Mark Peacock
15424 State Road 358
Edwardsport, IN 47528

Mail Drop WP941
1000 E Main St.
Plainfield, IN 46168

Phone: (812) 735-8583
PWS ID#:
State: _____

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): *Diana Beedy* ***required information***

Compliance Monitoring? Yes ☐ No ☒

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Samples Chlorinated? Yes ☐ No ☒

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

MMLI USE ONLY *required information*

Workorder #	Date	Collection	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092785	(mm/dd/yy):	Time (24 hr):					
Sample ID#							
5092785-01 A	09-24-15	0805	Plastic 1L Outer Office	1	Filtered Water	6 c	TDS Fmb
20150924-015							
5092785-02 A	09-24-15	0815	Plastic 1L Outer Office	1	Greywater Influent	6 c	TDS Fmb
20150924-017							
5092785-03 A	09-24-15	0810	Plastic 1L Outer Office	1	Greywater In Process	6 c	TDS Fmb
20150924-016							

Preservation Check Performed by: _____

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow (MGD) _____ or (CFS) _____ or (g/min) _____

Relinquished by: (Signature)

Received by: (Signature)

Date (mm/dd/yy)

Time (24 hr)

Diana Beedy
Michelle Snares

Michelle Snares

9-25-15
9-25-15

12:15
13:50

☒ MMLI - Check here if trip charge applied to associated COC

Printed: 9/18/2015 2:58:27PM

Page 4 of 4